

Claims

What is claimed is:

- 1 1. A system for providing two-way communication of content between a wireless mobile
2 communication device and a remote computer network, comprising:
3 a wireless two-way messaging network further comprising:
4 said wireless communication device;
5 a basestation in communication with said wireless communication device;
6 a gateway server in communication with said basestation; and
7 a network and layer framework for translating said communicated content
8 between said wireless communication device and said basestation; and
9 an intermediary computer system in communication with said wireless two-way
10 messaging network and said remote computer network.
- 1 2. The system of claim 1, wherein said network and layer framework comprises:
2 a system layer;
3 an operating system framework layer;
4 a user interface; and
5 a Message Transport Protocol stack.
- 1 3. The system of claim 2, wherein said user interface comprises a computer network
2 browser.
- 1 4. The system of claim 2, wherein said network and layer framework interface further
2 comprises a data encryption module.

1 5. The system of claim 1, wherein said intermediary computer system further comprises:
2 a first electronic queue of data communicated from said wireless two-way messaging
3 network to said intermediary computer system;
4 a plurality of data modules in communication with said first electronic queue;
5 an event handler in communication with said plurality of data modules;
6 an application dispatcher in communication with said plurality of data modules and said
7 event handler;
8 a second electronic queue of data communicated from said intermediary computer system
9 to said wireless two-way messaging network; and
10 a content fetcher in communication with said application dispatcher and said remote
11 computer network.

12 6. The system of claim 5, wherein said second queue further comprises means for Message
13 Transport Protocol encoding.

14 7. The system of claim 5, wherein said plurality of data modules comprises at least one of:
15 a message validator;
16 a session module;
17 a wireless IP/IP mapper database;
18 a data transformer;
19 an encryption module; and
20 a cache manager.

1 8. A method for providing two-way communication of content between a wireless mobile
2 communication device and a remote computer network via an intermediary computer system,
3 comprising the steps of:

4 originating a request for data at said wireless mobile communication device and
5 transmitting said data request through a network and layer framework to a two-way wireless
6 messaging network;

7 transmitting said request for data from said two-way wireless messaging network via a
8 first electronic queue to said intermediary computer system in communication with said remote
9 computer network;

10 retrieving the requested data from said remote computer network;

11 placing said retrieved data in a second queue;

12 transmitting said retrieved data from said second queue to said wireless communication
13 device via said two-way wireless messaging network; and

14 displaying said retrieved data at said wireless communication device.

15 9. The method of claim 8, wherein said request for data is a Uniform Resource Locator.

16 10. The method of claim 8, wherein said wireless communication device includes a stored
17 Wireless IP, and further wherein the step of transmitting said data request through a network and
18 layer framework to a two-way wireless messaging network comprises the steps of:

19 encoding said data request into Message Transport Protocol;

20 sending said Message Transport Protocol-encoded data request to one of a short
21 messaging system stack and an email stack; and

22 transmitting said Message Transport Protocol-encoded data request and said Wireless IP
23 to said intermediary computer system.

11. The method of claim 10, further comprising the steps of:

placing a copy of said Message Transport Protocol-encoded data request in said wireless communication device;

waiting a fixed duration for one of positive receipt confirmation and negative receipt confirmation from said intermediary computer system;

retrieving said copy of said Message Transport Protocol-encoded data request from said wireless communication device in response to said negative receipt confirmation;

transmitting said retrieved copy of said Message Transport Protocol-encoded data request and said Wireless IP to said intermediary computer system; and

removing said copy of said Message Transport Protocol-encoded data request from said wireless communication device in response to said positive receipt confirmation from said intermediary computer system.

12. The method of claim 8, wherein the step of retrieving the requested data from said remote computer network further comprises the steps of:

retrieving said request for data in said first electronic queue;

validating said retrieved request for data for Message Transport Protocol coding and transmission completeness;

analyzing said retrieved request for data to identify type of data requested;

locating a data module suitable for retrieval of said requested data; and

passing said data module to a content fetcher.

13. The method of claim 12, further including the steps of:

transforming said retrieved data to an intermediary markup language; and

transforming said retrieved data to a target markup language.

1 14. The method of claim 12, wherein said intermediary markup language is Extensible
2 Markup Language.

1 15. The method of claim 8, wherein said second electronic queue divides said retrieved data
2 into a plurality of data packets.

1 16. The method of claim 15, further including the step of Message Transport Protocol-
2 encoding each of said plurality of data packets.

1 17. The method of claim 16, wherein each of said plurality of data packets has a maximum
2 length of 448 characters.

1 18. The method of claim 17, wherein said step of transmitting said retrieved data from said
2 second electronic queue to said wireless communication device via said two-way wireless
3 messaging network is conducted using one of Short Messaging Service protocol, Simple Mail
4 Transfer Protocol, and Simple Network Paging Protocol.

1 19. The method of claim 17, further including the step of retrieving a Wireless IP and Session
2 ID for said retrieved data.

1 20. The method of claim 8, further including the steps of:
2 encrypting one of said data request and said retrieved data prior to transmission; and
3 decrypting said one of said data request and said retrieved data subsequent to
4 transmission.